

ANNUAL REPORT FOR 2004



Hanging Rock Creek Stream Mitigation Site
Avery County
WBS Element 34402.4.1
TIP No. R-2237WM



Prepared By:
Office of Natural Environment & Roadside Environmental Unit
North Carolina Department of Transportation

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3.0 VEGETATION: HANGING ROCK MITIGATION SITE (YEAR 1 MONITORING)

3.1 Success Criteria

Success Criteria states that there must be a minimum of 320 trees per acre living after five years. When rooted vegetation does not survive, a determination will be made as to the need for replacement; in general, if greater than 25% die, replacement will be done.

3.2 Description of Species

The following species were planted in the Wetland Restoration Area:

Betula nigra, River Birch

Platanus occidentalis, Sycamore

Nyssa sylvatica var. *sylvatica*, Blackgum

Juglans nigra, Black Walnut

Diospyros virginiana, Persimmon

3.3 Results of Vegetation Monitoring

Plot #	River Birch	Sycamore	Blackgum	Black Walnut	Persimmon	Total (1 year)	Total (at planting)	Density (Trees/Acre)
1	10	14		6	9	39	40	663
2	2	4	2	36	3	47	60	533
AVERAGE DENSITY								598

Site Notes: Other species noted: rye grain, ragweed, fescue, and clover.

3.4 Conclusions

There were 2 vegetation monitoring plots established throughout the 9.8 acre planting area. The 2004 vegetation monitoring of the site revealed an average tree density of 598 trees per acre. This average is above the minimum success criteria of 320 trees per acre.

Per the letter from the Ecosystem Enhancement Program (EEP) to NCDOT dated August 25, 2004, the EEP has accepted the transfer of all off-site mitigation projects. The EEP will be responsible for fulfilling the remaining monitoring requirements and future remediation for this project.

Hanging Rock



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6

Hanging Rock Mitigation Site

